CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/AA/W.No.08/STEEL/2015-16 13.01.2016

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.
Name of the Work	:	Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	AEE(KSD)/PR/2015-16 Dated: 11.01.2016
Date of Test	:	13.01.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

Civil-Tech Consultants & Engineers Bangalore

Note:

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23/14, 7th Cross, 3rd Stage,
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Job No.: CTCE/BBMP/AA/W.No.08/STEEL/2015-16 13.01.2016

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.
Name of the Work	:	Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	AEE(KSD)/PR/2015-16 Dated: 11.01.2016
Date of Test	:	13.01.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.58	520	563	13.60	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/AA/W.No.08/CSR-01/1043c/CEMENT/2015-16 Date: 13.01.2016

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
***AGENCY**		**Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.
***NAME OF THE WORK**	:	Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE		AEE(KSD)/PR/2015-16 Dated: 11.01.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	11.01.2016
PERIOD OF TESTING	:	11.01.2016 to 13.01.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/AA/W.No.08/CSR-01/1043c/SAND-Gradation/2015-16 : 13.01.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.

*** Name of Work** : Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2015-16 Dated: 11.01.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 11.01.2016

Date of Testing : 13.01.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.50	90-100	90-100	90-100	95-100
2.36	74.20	60-95	75-100	85-100	95-100
1.18	52.80	30-70	55-90	75-100	90-100
600 Micron	24.30	15-34	35-59	60-79	80-100
300 Micron	11.60	5-20	8-30	12-40	15-50
150 Micron	5.10	0-10	0-10	0-10	0-15

*Information is furnished by the Customer/Representative.

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/AA/W.No.08/CSR-01/1043c/AGG/GR/2015-16 : 13.01.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.

*** Name of Work** : Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2015-16 Dated: 11.01.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 11.01.2016

Date of Testing : 13.01.2016

Total Wt. of Aggregates in gms= **10000**

AE-8

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.70	95-100	85-100
20	35.95	30-70	0-20
10	12.45	10-35	0-5
4.75	2.70	0-5	-

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Graded specific limits.

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TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.

*** Name of Work** : Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2015-16 Dated: 11.01.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Sample Received on : 11.01.2016

Date of Testing : 13.01.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.04	95-100	85-100
10	33.56	25-55	0-20
4.75	4.26	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/AA/W.No.08/CSR-01/1043c/CUBE/2015-16 30.01.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
***Agency**	: **Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.
***Name of the work**	: Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE(KSD)/PR/2015-16 Dated: 23.01.2016
***Sample ID**	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
***Grade of Concrete**	: M_{20}
Compressive Strength as on	: 7th day
Sample Received on	: 30.01.2016

AE-8

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2016	30.01.2016	8.263	342.5	15.22
2	23.01.2016	30.01.2016	8.457	366.5	16.29
3	23.01.2016	30.01.2016	8.364	358.7	15.94

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Job No.: CTCE/BBMP/AA/W.No.08/CSR-01/1043c/CUBE/2015-16 20.02.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
***Agency**	: **Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.
***Name of the work**	: Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE(KSD)/PR/2015-16 Dated: 23.01.2016
***Sample ID**	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
***Grade of Concrete**	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 20.02.2016

AE-8

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2016	20.02.2016	8.352	493.7	21.94
2	23.01.2016	20.02.2016	8.274	486.5	21.62
3	23.01.2016	20.02.2016	8.463	510.2	22.68

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Job No.: CTCE/BBMP/AA/W.No.08/CSR-01/1043c/CUBE/2015-16 30.01.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

***Agency** : **Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.

***Name of the work** : Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2015-16 Dated: 23.01.2016

***Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

AE-8 → 1

Sample Received on : 30.01.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2016	30.01.2016	8.245	346.5	15.40
2	23.01.2016	30.01.2016	8.362	359.2	15.96
3	23.01.2016	30.01.2016	8.485	372.8	16.57

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

***Agency** : **Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.

***Name of the work** : Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2015-16 Dated: 23.01.2016

***Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 20.02.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2016	20.02.2016	8.148	489.3	21.75
2	23.01.2016	20.02.2016	8.263	502.3	22.32
3	23.01.2016	20.02.2016	8.395	514.7	22.88

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Job No.: CTCE/BBMP/AA/W.No.08/CSR-01/1043c/CUBE/2015-16 30.01.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*Agency	: **Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.
*Name of the work	: Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE(KSD)/PR/2015-16 Dated: 23.01.2016
*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day
Sample Received on	: 30.01.2016

AE-B

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2016	30.01.2016	8.267	363.3	16.15
2	23.01.2016	30.01.2016	8.152	345.6	15.36
3	23.01.2016	30.01.2016	8.348	370.8	16.48

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Job No.: CTCE/BBMP/AA/W.No.08/CSR-01/1043c/CUBE/2015-16 20.02.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

***Agency** : **Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.

***Name of the work** : Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2015-16 Dated: 23.01.2016

***Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 20.02.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2016	20.02.2016	8.362	522.3	23.21
2	23.01.2016	20.02.2016	8.147	496.8	22.08
3	23.01.2016	20.02.2016	8.285	507.4	22.55

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Job No.: CTCE/BBMP/AA/W.No.08/CSR-01/1043c/CUBE/2015-16 30.01.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

***Agency** : **Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.

***Name of the work** : Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2015-16 Dated: 23.01.2016

***Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

AE-8

Compressive Strength as on : 7th day

Sample Received on : 30.01.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2016	30.01.2016	8.126	342.8	15.24
2	23.01.2016	30.01.2016	8.374	367.4	16.33
3	23.01.2016	30.01.2016	8.259	355.2	15.79

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/AA/W.No.08/CSR-01/1043c/CUBE/2015-16 20.02.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
***Agency**	: **Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.
***Name of the work**	: Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE(KSD)/PR/2015-16 Dated: 23.01.2016
***Sample ID**	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
***Grade of Concrete**	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 20.02.2016

AE-B

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2016	20.02.2016	8.284	503.6	22.38
2	23.01.2016	20.02.2016	8.367	517.3	22.99
3	23.01.2016	20.02.2016	8.452	526.8	23.41

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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Quality Manager

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T-2377

Job No.: CTCE/BBMP/AA/W.No.08/CSR-01/1043c/CUBE/2015-16 30.01.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

***Agency** : **Mr. Aswathanarayana Anjanappa,** Contractor, Bangalore.

***Name of the work** : Providing CC Road at Muneshwara Layout (near Prabhakar Residence, Holy Christ School and Sai Motor Garage) in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2015-16 Dated: 23.01.2016

***Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

***Grade of Concrete** : M_{20}

AE-B

Compressive Strength as on : 7th day

Sample Received on : 30.01.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2016	30.01.2016	8.257	347.2	15.43
2	23.01.2016	30.01.2016	8.363	363.4	16.15
3	23.01.2016	30.01.2016	8.475	372.5	16.56

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*Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
*Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 20.02.2016

AE-B

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.01.2016	20.02.2016	8.294	503.4	22.37
2	23.01.2016	20.02.2016	8.163	489.2	21.74
3	23.01.2016	20.02.2016	8.372	512.7	22.79

Note:

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